

1.96; Buffalo, 0.29; Erie (Pa.), 0.87; Ithaca, 1.03; Le Roy, 0.20; Oswego, 1.07; Palmer, 1.47; Rochester, 0.60; Utica, 0.87, and White Plains, 1.19 below. Snow fell at Friendship on the 1st, and at Humphrey and Middleburgh on the 2d. The average number of days on which the precipitation was 0.01 or more of rain or snow was 11.

Wind.—Prevailing direction, south.—*Prof. E. A. Fuertes, Ithaca, director; I. W. Brewer, Private, Signal Corps, assistant.*

NORTH CAROLINA.

SUMMARY.

Temperature.—Monthly mean, 67.8; highest monthly mean, 74.7, at Southern Pines; lowest monthly mean, 62.2, at Hot Springs; highest temperature, 98, at Southern Pines and Fayetteville, 11th; lowest temperature, 30, at Asheville, 4th; range for state, 68.

Precipitation.—Monthly average for the state, 4.53; greatest monthly, 8.48, at Weldon; least, 2.54, at Kitty Hawk.

Wind.—Prevailing direction, north.—*Dr. Herbert B. Battle, Raleigh, director; H. McP. Baldwin, Private, Signal Corps, assistant.*

OHIO.

SUMMARY.

Temperature.—The mean of the northern section was 58.7; of the middle section, 60.4, and of the southern section, 61.7; these means are 0.4, 0.4, and 1.2 below the averages for the sections. The mean for the state, 60.2, is 0.7 below the average for May. The maximum temperature was 96 at Wapakoneta, 10th, and the minimum, 25.6, at Wauseon, 1st. The greatest daily range was 50, at Logan, 9th, and the smallest, 3.9, at Sidney, 30th.

Precipitation.—Precipitation was general and heavy in all sections on the 11th, 18th, 14th, 19th, 20th, 22d, 27th, 29th, 30th, and 31st; in the northern section on the 10th and 21st, and in the southern section on the 23d, 24th, and 25th. Local rains occurred in the northern and middle sections on the 12th. About one-half the rainfall for the month fell during the last three days. Snow was reported from Greenville, Upper Sandusky, Bangorville, and Fostoria on the 22d, and hail from stations in the northern section on the 10th, 11th, and 14th; in the middle section on the 10th, 22d, and 27th, and in the southern section on the 13th, 22d, and 27th. The mean rainfall for the month in the northern section was 3.95; in the middle section, 3.78, and in the southern section, 3.35. The rainfall in the northern section was 0.12 above the average. In the middle and southern sections the means are 0.57, and 0.71 below the averages for the sections. The mean for the state, 3.71, is 0.38 below the average for May. The deficiency in rainfall for the year to June 1st amounts to 1.66 in the northern section; 4.95 in the middle section, and 6.97 in the southern section. The deficiency for the state amounts to 4.42.

Wind.—Prevailing direction, south.—*Prof. B. F. Thomas, Columbus, director; Lieut. Charles E. Kilbourne, secretary; C. M. Strong, Corporal, Signal Corps, assistant.*

PENNSYLVANIA.

SUMMARY.

Temperature.—The mean temperature for May, 1889, 62.0, is 1 above the average. The warmest period of the month occurred on the 9th, and the coldest on the 2d, 4th, and 29th. Frosts were general throughout the state on these dates. The highest temperatures reported were Carlisle, 96; Hollidaysburgh, Reading, Coatesville, and York, 94. The lowest temperatures were Emporium, 25; New Castle, Columbus, and Dyberry, 26. The highest mean monthly temperatures were Indiana, 68.8; Annville, 66.5, and Emporium, 64.5. The lowest were Wellsborough, 55.1; Columbus, 56.0; Dyberry, 56.3.

Precipitation.—The average rainfall over the state during the month was 5.91, which is an excess of over 2.00. Had it not been for the phenomenal rainfall of the 31st, there would have been a deficiency in the western and middle portions of the state. The largest totals for the month were McConnellsburgh, 12.41; Grampian Hills, 11.60; Charlesville, 11.07; Harrisburg, 9.51; Smethport, 9.21, and Selin's Grove, 9.20. The excessive and unprecedented rainfall of the 31st, which caused disastrous floods, was at Grampian Hills, 8.37; McConnellsburgh, 7.08; Charlesville, 6.71; Selin's Grove, 6.00; Emporium, 5.85; Smethport, 5.50; Hollidaysburgh, 5.12, and Harrisburg, 4.66. In the southeastern portion of the state the fall was very light on this date, many stations reporting less than 0.10. From the 1st to the 10th there was a general absence of rain. From this time to the end of the month rains occurred almost daily at some stations. On the 31st the central portion of the state was visited by one of the greatest rainfalls and floods ever known in this country for magnitude and destructiveness. Large sections were flooded, whole towns and cities were swept away; thousands of people drowned, and millions of dollars in property destroyed. It is estimated that from six to eight inches of rain fell in twenty-four hours over a large area of the central part of the state.

Wind.—Prevailing direction, west.—*Under direction of the Franklin Institute, Philadelphia; T. F. Townsend, Sergeant, Signal Corps, assistant, in charge.*

SOUTH CAROLINA.

SUMMARY.

Temperature.—The mean temperature, 71.7, is 0.2 above the normal; greatest monthly mean, 74.9, at Florence; lowest monthly mean, 68.5, at Trial; maximum, 101, at Chester, 11th; minimum, 35, at Cedar Springs, 4th, and George's, 5th. Range for the state, 66; greatest local monthly range, 63, at George's; least local monthly range, 41, at Camden.

Precipitation.—The average for the state, 1.97, is 2.25 below the normal; greatest, 5.64, at Florence; least, 0.45, at Beaufort; greatest daily rainfall, 4.92, at Florence, 31st. Average number of rainy days, 4.8.

Wind.—Prevailing direction, northwest.—*Hon. A. P. Butler, Columbia, director; H. C. Seymour, Private, Signal Corps, assistant.*

TENNESSEE.

The month of May had several abnormal features, among which were the periods of low temperature during the first week and the last two days, both resulting in frost; the high winds which prevailed at various times during the month, and the heavy rainfall during the last week. The percentage of cloudiness was below the normal.

SUMMARY.

Temperature.—The mean temperature, 64.7, is slightly below the average for the past seven years. The highest local monthly mean was 71.2, at Woodstock, and the lowest was 60.1, at Cog Hill. The highest temperature observed was 92, on the 17th at Watkins, Hohenwald, and Bolivar, and the lowest was 30, on the 4th at Rogersville. This was the lowest May minimum during the past seven years, except that of last year which was the same, and was also the same as the April minimum of last year. The highest temperature was generally recorded on the 10th in the eastern division, and on the 17th in the middle and western divisions, while the lowest was recorded generally on the 3d, 4th, and 31st. The daily ranges of temperature were in excess of the normal for May.

Precipitation.—The average amount of rainfall during the month was 8.80, a little less than the May average for the past seven years. Of this amount the eastern division received an average of more than 4.50, the middle division about 4.00, and the western about 2.50. The larger proportion of this fell on the 25th, 29th, and 30th. The greatest rainfall occurred on the 29th and 30th, when an average of nearly two inches fell throughout the state. The rains of the 1st, 12th, 13th, 25th, 29th, and 30th were general; that of the 18th was confined principally to the middle and western divisions; that of the 19th principally to the middle and eastern divisions, and that of the 26th to the eastern division; the others were generally light, local rains. The greatest local monthly rainfall was 6.89, at Kingston, and the least was 1.48, at Memphis. The greatest local daily rainfall was 8.52 on the 30th, also at Kingston, which station showed the remarkable amount of 4.52 inches on the two days—29th and 30th.

Wind.—Prevailing directions, south and southwest.—*J. D. Plunket, M. D., Nashville, director; H. C. Bate, Signal Corps, assistant.*

TEXAS.

SUMMARY.

Temperature.—The mean temperature for May was highest over the southwestern portion of the state, where it rose to 75, at Brownsville, and no point along the coast west of Galveston, where the mean is 73, reports a mean less than 74. Means above 70 were reported in the eastern portion of the state as far north as the thirty-third parallel. In the western portion of the state, Silver Falls and El Paso each reported a mean of 73. The mean temperature was generally from 2 to 4 below the normal over the state, except over the Panhandle and the extreme western portion, where an excess of from 2 to 4 was reported. The highest temperature reported was 102, at Pecos City, 14th, and the lowest, 34, at Silver Falls, 1st.

Precipitation.—The rainfall has been deficient over the entire state, with the exception of a strip about fifty miles wide along the coast between Columbia and Corpus Christi, where reports show an excess ranging from 1.00 to 3.00. The greatest departure from the normal is over that section north of the twenty-ninth parallel and east of the ninety-eighth meridian, where the deficiency ranged from 2.00 to 4.00. Over that section between the ninety-eighth meridian and the one hundred and second meridian the deficiency ranged from 1.00 to 2.50, being greatest over the east half of the Panhandle. The rainfall over that portion of the state west of the one hundred and second meridian did not exceed 0.05. General and well distributed rains fell over the state from the 16th to 19th, and from the 24th to 29th.—*S. O. Young, M. D., Galveston, director; I. M. Cline, Sergeant, Signal Corps, assistant.*

Meteorological record of Army post surgeons and voluntary observers, May, 1889.

Stations.	Temperature. (Fahrenheit.)			Precip'n.	Stations.	Temperature. (Fahrenheit.)			Precip'n.
	Max.	Min.	Mean.			Max.	Min.	Mean.	
<i>Alabama.</i>									
Auburn	89	45	70.1	1.52	Motest	87	38	68.7	4.11
Bermuda †	90	45*	67.8	20.05	Mt. Vernon Bks.	93	42	71.0	2.62
Centre	88	42	.....	0.75	Mount Willing†*	88	45	69.8	1.05
Citronelle†	95	42	71.3	2.32	New Market†	89	37	65.1	4.64
Columbiiana†	91	27	67.8	0.80	Opelika†	94	44	71.4	1.40
Decatur (1)†	.....	.....	.....	2.00	Pine Apple†	96	40	70.7	20.03
Decatur (2)†	94	31	66.0	1.12	Selma†	93	43	71.4	1.03
Elkmont†	95	37	65.5	2.42	Talladega	88	42	70.6	1.90
Eufaula†	91	42	70.5	1.15	Troy†	91*	41	72.8	1.42
Florence	86	46	64.4	2.43	Tuscaloosa	87	41	72.5	2.22
Fort Deposit†	93	42	71.2	1.33	Tuscumbia (1)†	92	45	66.9	2.48
Gadsden†	92	38	68.7	1.60	Tuscumbia (2)†	91	32	65.8	1.50*
Greensborough	90	42	70.7	0.61	Union Springs	92	48	79.0	1.23
Livingston (1)†	91	42	69.2	0.69	Uniontown	90	41	72.9	0.10
Livingston (2)†	90	41	71.4	0.34	Valley Head†	90	34	62.5	3.44
Marion†	91	37	68.3	0.37	Wiggins	96	42	70.9	1.57

Meteorological record of voluntary observers, &c.—Continued.

Stations.	Temperature. (Fahrenheit.)			Precip'n.	Stations.	Temperature. (Fahrenheit.)			Precip'n.
	Max.	Min.	Mean			Max.	Min.	Mean	
Alaska.	o	o	o	Ins.	California—Cont'd.	o	o	o	Ins.
Killisnoo	61	33	47.2	2.95	Crescent City	100	39	62.7	10.91
Arizona.					Davison	100	54	69.6	1.48
Antelope Valley					Delta	100	40	64.8	5.81
Benson*	98	57	77.6		Downey	94	56	66.6	0.32
Casa Grande*	104	62	79.1		Dunnigan	89	54	68.6	1.46
Cedar Springs					Dunsmuir	79	38	53.2	7.06
Curtis*					El Dorado	97	47	68.2	7.50
Flagstaff	95.0	19	62.0	0.65	Elmira	103	50	71.6	1.67
Fort Apache	92	30	61.5		Emigrant Gap	82	30	49.2	8.61
Fort Bowie	92	44	70.2		Esperanza*	102	50	70.1	1.47
Fort Huachuca	90	44	69.6		Evergreen				1.01
Fort Lowell	105	37	71.5		Farmington	100	50	67.4	1.88
Fort McDowell	110	45	75.9		Felton	84	40	60.0	4.28
Fort Mojave	108	50	78.2	0.26	Florence	88	50	64.2	0.17
Fort Verde	100	34	67.2		Folsom	98	50	69.1	3.29
Globe	98				Fort Bidwell	90	30	55.7	1.62
Holbrook	94	29	65.4		Fort Gaston	99	33	56.2	6.06
Maricopa	105	60	75.2		Fort Mason	84	47	58.3	1.98
Mount Huachuca					Fresno	106	50	72.9	0.60
New River	80	42	59.2		Fruto	102	46	70.3	1.33
Pantano	99	55	76.3	0.00	Georgetown	86	36	58.6	7.07
Peoria	107	45	70.5		T.	95	50	63.7	2.00
Phoenix	108	48	79.0		Girard	91	38	63.5	1.97
San Carlos					Glen Ellen	91	47	62.4	5.84
San Simon*	106	40	75.0	0.00	Goshen	102	50	76.9	1.15
Signal					Grass Valley				7.21
Strawberry					Hollister	88	53	65.1	1.26
Tevison					Humboldt	102	38	63.4	5.44
Texas Hill*	100	66	82.8	0.00	Hydesville†	81	40	56.6	5.83
Tombstone	93	36	65.4		Indio	105	62	79.5	
Tucson (1)*	96	48	64.2h		Ione	100	50	67.9	2.58
Tucson (2)*	99	49	70.3		Iowa Hill	90	40	60.4	8.26
Volunteer Springs	87f	17	52.1	0.90	Jolon				1.12
Walnut Grove					Keeler	95	45	69.9	0.06
Wilcox*	98	54	73.0	0.00	Koenee	91	42	62.6	1.77
Williams	83	23	52.2		Kingsburgh	100	55	75.7	0.72
Willow Springs					King City	104	42	63.4	0.48
Winslow					Knight's Landing	93	40	64.1	2.17
Arkansas.					La Grange	104	46	68.5	1.64
Alexander	87	48	67.0	2.95	Lathrop	98	35	63.7	0.85
Arkansas City†					Laurel	90	49	61.9	4.44
Brinkley†	87	45	70.0	0.05	Lemoore	102	51	74.9	0.13
Camden†					Lewis Creek	100	48	73.5	1.36
Conway	87	46	66.7	4.11	Livingston	104	50	71.2	1.00
Dallas†	85	38	61.9	3.31	Long Beach	80	53	63.4	4.00
Dardanelle†					Los Angeles	92	52	64.5	0.57
Dayton†	86	43	68.3	4.67	Los Banos	101	50	69.0	0.64
Devall's Bluff†	90	37	68.1	1.49	Los Gatos	95	53	66.8	2.35
El Dorado†	86	42	66.4	0.91	Mammoth Tank	100	56	84.2	0.00
Forrest City†	89	42	69.6	2.17	Martinez	87	50	64.2	1.95
Fulton†					Menlo Park	86	48	61.9	1.08
Heber	88	37	61.9	2.75	Modesto	101	50	69.6	0.77
Helena (1)f					Nicholet	101	50	73.8	1.20
Hot Springs	93	40	66.8	1.02	Montague	99	43	68.1	1.71
Lead Hill	90	37	66.0	4.39	Monterey	98	40	65.1	1.70
Little Rock B'ks	88	50	67.7	3.52	Monterey (Hotel del Monte)	68?	54	61.7	1.22
Lonoke	85	45	69.9	2.75	Pajaro	83	48	60.2	1.80
Marshall†	87	43	63.0	0.62	Paso Robles	94	45	61.8	1.25
Melbourne†	91	34	66.0	5.81	Petaluma	87	51	67.3	2.68
Monticello†g	91				Placerville	94	46	66.1	8.88
Newport (1)f					Pomona	94	59	69.8	0.70
Newport (2)f	89	43	67.1	2.40	Presidio of San F	84	44	55.7	0.70
Osceola†					Puente	95	54	65.9	0.40
Ozone†	90	41	77.2	1.73	Red Bluff	100	50	68.0	2.09
Prescott J.d.	87	45	70.2	0.52	Redding	104	46	69.5	0.99
Russellville†	90	38	68.2	3.50	Riverside	102	43	64.0	0.30
Stuttgart†	86	39	66.7	1.35	Rocklin	102	52	70.1	2.25
Texarkanat†	90	44	70.9	2.74	Rumsey	100	50	70.3	2.45
Washington†	87	40	74.6	1.96	Sacramento (1)	90	38	61.4	3.65
British Columbia.					Sacramento (2)*	87	52	65.9	2.69
New Westminster	78	45	58.2	3.06	Salinas (1)*	87	49	57.0	0.68
California.					Salinas (2)*	76	48	59.0	0.79
Alcadel	106	50	71.8		Sanger Junction	105	54	75.8	0.80
Alcatraz Island	77	49	56.2	2.30	San Ardo*	99	48	62.6	2.27
Almaden*	88	51	65.3	2.01	San Bernardino	90	46	63.5	1.13
Anheim*	94	50	67.8	0.57	San Diego B'ks	82	49	62.2	....
Anderson†	98	45	68.6	5.99	San Fernando*	98	46	63.2	0.43
Angel Island	89	45	59.9	2.45	San Gabriel	98	54	67.2	0.75
Antioch*	97	37	67.4	1.07	San Jose*	91	51	61.9	0.90
Aptos*	80	45	59.6	1.71	San Luis Obispo	90	44	59.9	1.78
Athlone*	105	52	72.6	0.93	San Mateo*	84	50	59.7	1.08
Auburn*	89	46	63.8	4.65	San Miguel*	93	45	63.6	0.67
Bakersfield*	103	54	78.7	0.22	San Pedro*	83	54	66.7	0.00
Barstow*	104	44	71.6	0.12	Santa Ana*	96	58	67.7	0.45
Benicia Barracks	89	44	61.5	2.01	Santa Barbara (1)	83	47	60.0	0.76
Berendo*	102	53	74.7	1.41	Santa Barbara (2)*	86	34	63.6	0.80
Berkeley	86	45	57.3	1.50	Sanger Junction	105	54	75.8	0.80
Bishop Creek*	106	53	76.1	0.30	San Ardo*	99	48	62.6	2.27
Boca*	89	39	48.6	3.69	San Bernardino	90	46	63.5	1.13
Borden*	101	50	69.3	0.24	San Diego B'ks	82	49	62.2	....
Brighton*	100	47	68.4	2.85	San Fernando*	98	46	63.2	0.43
Byron*	98	54	71.1	0.98	San Gabriel	98	54	67.2	0.75
Cactus*	108	56	81.7	0.00	San Jose*	91	51	61.9	0.90
Caliente*	99	49	70.7	0.00	San Luis Obispo	90	44	59.9	1.78
Castroville*	93	44	63.0	3.91	San Mateo*	84	50	59.7	1.08
Centreville*	93	50	66.2	1.20	San Miguel*	93	45	63.6	0.67
Chico*	104	48	69.7	1.78	San Pedro*	83	54	66.7	0.00
Cisco*	77	27	49.7	8.10	Santa Ana*	96	58	67.7	0.45
Colegrove	96	36	57.3	0.69	Santa Barbara (1)	83	47	60.0	0.76
Colfax*	94	35	60.5	9.14	Santa Barbara (2)*	86	34	63.6	0.91
Colton*	100	54	66.0		Santa Clara	86	34	63.6	0.80
Corning*	105	45	71.2	1.38	Santa Cruz*	72	50	59.3	1.78

Meteorological record of voluntary observers, &c.—Continued.

Stations.	Temperature. (Fahrenheit.)			Precip'n.	Stations.	Temperature. (Fahrenheit.)			Precip'n.
	Max.	Min.	Mean			Max.	Min.	Mean	
California—Cont'd.	o	o	o	Ins.	California—Cont'd.	o	o	o	Ins.
Santa Rosa*	83	42	62.6	2.93	Selma	98	52	73.1	0.70
Seven Palms*	110	64	83.7	0.01	Shingle Springs*	94	40	63.1	3.55
Sime*	99	40	58.0	1.52	Soledad*	98	48	61.3	5.85
South Side*	88	46	63.3	2.10	Stockton (1)	90	44	62.9	0.38
South Vallejo*	82	50	64.8	0.61	Stockton (2)*	90	44	64.4	6.30
Steelies	89	43	58.3	1.77	Stockton (3)	90	44	62.9	0.34
Stockton (1)	90	44	62.9	1.52	Tehachapi	85	30	62.3	1.07
Stockton (2)	90	44	62.9	1.52	Tehama	104	50	75.6	2.05
Stockton (3)	90	44	62.9	1.52	Templeton	94	48	63.1	2.05
T. T.					Towles	90	36	60.1	1.00
Tracy	102	52	70.9	1.04	Truckee	86	32	65.4	4.51
Traver*	96	50	70.7	1.04	Tropicō	92	51	65.8	0.00
Trussell	98	52	70.2	0.31	Tulare	104	50	74.0	1.00
Turlock	99	50	71.0	0.92	Turlock*	99	50	71.0	0.92
Vacaville (1)*	99	50	64.9	3.04	Valley Springs*	97	50	67.4	0.00
Vacaville (2)*	97	50	64.9	3.04	Valley Springs†	97	50	67.4	0.00
Valley Springs†	97	50	64.9	3.04	Vina	93	42	67.8	1.94
Vina	93	42	67.8	1.94	Volcano Springs*	117	38	84.9	

Meteorological record of voluntary observers, &c.—Continued.

Stations.	Temperature. (Fahrenheit.)			Precip'n.	Stations.	Temperature. (Fahrenheit.)			Precip'n.
	Max.	Min.	Mean			Max.	Min.	Mean	
<i>Illinois—Cont'd.</i>	o	o	o		<i>Ins.</i>	<i>Iowa.</i>	o	o	o
Beason.	94	30	59.1	4.19	Amana.	86	31	59.8	4.46
Belvidere.	86	28	56.7	5.00	Ames.	86	38	60.0	4.46
Brush Hill.	94	43	62.7	4.12	Bancroft.	80m	44	59.6d	1.97
Camargo.	89	39	61.0	1.09	Blakeville.	83	36	57.0	6.46
Cedarville.	86	37	60.5	3.32	Cedar Rapids.	84	29	58.6	5.15
Centralia.	91	42	61.0	6.33	Clinton.	88	36	62.5	4.10
Charleston.	94	30	62.2	4.19	Cresco.	80	29	59.0	4.18
Chicago.	90	34	59.5	5.50	Cromwell.	83	33	60.4	3.50
Collinsville.	88	39	62.6	3.11	Denmark.	84	38	57.7	4.72
Dwight.	90	28	59.8	4.24	Des Moines.	87	32	61.1	4.40
Fairfield.	92	42	67.1	4.40	Dunkerton.	84	36	60.3	8.54
Flora.	94	34	63.0	4.88	Dysart.	81	34	56.8	6.40
Fort Sheridan.	89	35	55.7	3.22	Eagle Grove.	85	32	58.1	6.45
Golconda.	90	42	65.5	3.38	Eklader.	82	42	60.1	4.65
Grand Tower.			3.71		Fayette.	83	27	56.1	4.58
Greenville.	90	35	61.3	7.10	Fort Madison.	89	38	63.4	5.61
Griggsville.	94	47	67.4	9.38	Gillet.	86	43	65.0	5.20
Hennepin.	94	29	59.6	4.12	Glenwood (1).	92	34	65.1	5.20
Hillsborough.	88	40	65.2	8.63	Glenwood (2).	90	30	59.2	4.05
Irishtown.	90	42	63.2	4.93	Grinnell.	83	33	59.8	6.76
Jordans Grove.	92	36	65.8	3.68	Hampton.	83	32	56.2	4.11
Lacon.	93	38	60.6	3.92	Humboldt.	82d	24	56.2g	5.88
Lake Forest.	88	31	54.8	4.66	Independence.	79	42	59.7	5.88
La Mar.	84	39	60.2	3.55	Iron City.	80	37	60.0	3.28
Mascoutah.	89	40	60.0	4.90	Le Claire.			5.13	
Mattoon.	92	31	60.4	5.33	Logan.	90*	28	62.7	
McLeansborough.	94	39	63.8	2.80	Manson.	84	34	57.2	2.90
Mount Carmel.			5.60		Maquoketa.	86	40	59.6	5.08
Mount Morris.	93	35	56.8	2.90	Monticello.	86	32	59.9	4.56
Olney.	91	39	63.8	4.70	Mount Pleasant.	82	43	60.7	5.83
Oneida.	90	34	59.6	3.90	Mount Vernon.	87	41	62.2	5.58
Oswego.	90	30	56.8	3.12	Muscatinge (1).			5.79	
Ottawa.	88	40	59.8	4.36	Muscatinge (2).	87*	31	59.6	4.17
Palestino.	88	36	63.1	4.00	Oskaloosa (1).	86	40	62.6	3.25
Pana.	90	44	61.1	6.83	Oskaloosa (2).	90	34	62.4	3.33
Pekin.	92	31	60.5	3.47	Osage.			5.73	
Peoria (1).	92	35	62.6	3.92	Sac City.	86	40	57.3	2.38
Peoria (2).			5.82		Sioux City.			1.40	
Philo.	90	28	60.3	5.88	Vinton.	81	37	59.3	4.95
Pontiac.	94	26	58.2	5.50	Washington.	92	25	64.9	3.53
Quincy.	90	33	64.9	8.25	Webster City.	88	31	58.9	5.72
Richview.	90	36	61.9	4.72	Wesley.	88	26	56.4	1.95
Riley.	86	34	55.6	4.09	Kansas.				
Rockford.	85	32	57.4	6.64	Abilene.			9.05	
Rock Island Ariz.	85	36	59.8	5.55	Allison.	90	40	60.5	4.90
Sandwich.	92	40	61.8	3.08	Arlington.			4.90	
South Evanston.	94	31	56.2	4.02	Atkin.	94	25	60.9	2.93
Summer.	90	34	62.5	3.20	Atwood.			5.08	
Sycamore.	88	32	55.9	5.17	Augusta.	88	42	65.8	4.27
Watseka.			3.36		Bellefonte.	90	40	55.0	5.03
White Hall.	86	34	62.7	10.63	Bendena.	90	50	67.4	4.82
Windsor.	88	33	61.2	7.36	Brookville.	98	38	60.6	
Winnebago.	90	36	58.8	5.42	Bucklin.			1.30	
Indiana.					Buffalo Park.	90	44	64.4	
Blue Lick.	90	36	63.1	5.55	Bunker Hill.	98	41	65.9	7.75
Butterville.	39	61.7	64.3		Burr Oak.	92	29	60.7	
Cannelton.	92	34	63.0	4.53	Cawker City.	93	41	65.7	
Columbia City.	91	32	57.3	5.95	Colby.	93	28	57.9	2.28
Columbus.	89	35	61.0	4.80	Cold Water.			3.90	
Connersville.	89	40	61.5	5.59	Collyer.	98	32	63.2	2.33
Dana.	92	28f	61.8	4.53	Concordia (near).	92	26	62.0	3.80
Delphi.	91	25	59.6	7.25	Conway.	90	31	57.2	1.16
De Gonia Springs.	85	38	62.1	4.04	Cunningham.	95	39	65.8	3.46
Evansville.			5.00		Dorrance.	100	42	65.7	8.03
Farmland.	90	32	61.0	4.15	Dwight.			6.07	
Franklin.	90	39	61.8	4.37	Elco.	92	35	64.8	6.88
Huntertown.	90	36	61.6	5.56	Elk Falls.	87	34	67.2	5.20
Huntingburgh.	91	38	62.6	5.55	Ellis (1).			5.80	
Huntington.			3.93		Ellis (2).	94	35	65.6	
Jeffersonville.	90	37	64.9	5.78	Ellsworth.	98	35	70.9	7.10
Laconia.	97	34	62.8	5.46	Englewood.	98	40	68.2	5.59
La Fayette.	93	31	59.5	6.41	Fort Hayes.	92	30	61.4	6.57
Logansport.			6.51		Ft. Leavenworth (1).	87	38	67.4	6.83
Marion.	88	31	58.0	3.20	Ft. Leavenworth (2).	86	37	62.7	8.35
Mauzy.	91	29	60.4	6.09	Fort Riley.	91	32	64.1	6.45
Mount Vernon (1).			4.43		Fort Scott.			7.50	
Mount Vernon (2).	91	40	61.1	4.53	Gibson.	100	28	55.8	2.28
Muncie.	91	36	61.1		Globe.	80	40	63.0	7.34
New Providence.	94	39	62.0	4.78	Gorham.	94	38	65.1	
Point Isabel.	90	32	61.2	9.25	Grainfield.	94	34	55.3	6.50
Princeton.	91	39	64.4	4.40	Grenola.	93	38	65.2	4.50
Richmond.	90	28	57.9	6.75	Grinnell.	96	38	62.0	5.40
Rockville.	90	30	62.4	5.75	Halstead.	90	33	64.5	5.47
Rushville.			6.74		Haven.			5.25	
Salem.	88	38	60.5	5.29	Havensville.	93	35	63.0	10.0
Scalesville.	94	39	65.5	4.27	Hays City.	95	50	8.16	
Seymour.	90	40	60.2	6.14	Horton.	93	37	64.7	
Spiceland.	90	30	62.3	6.43	Hoxie.			6.75	
Sunman.	89	31	60.0	5.72	Hugoton.	100	46	62.6	0.20
Vevay.	94	35	63.2	6.17	Independence.	87	41	64.6	6.66
Vincennes.	94	35	64.2	4.75	Junction City.			9.94	
Worthington.	88	35	60.7	2.90	Kanopolis.	95	40	8.8	3.65
Indian Territory.					Kirwin.				
Caddo Creek.	88	48	67.0		La Harpe.	48	64.2	6.36	
Cantonment.			1.09		Lawrence.	89	38	64.2	8.27
Eufaula.			3.93		Lebo.	93	32	64.4	12.14
Fort Gibson.	85	35	66.8	5.70	Leoti.	96	32	61.2	3.40
Fort Reno.	90	32	69.3g	1.80	Lisbon.	98	42	65.0	2.50
Fort Sill.	92	38	67.8	3.52	Luxembourg.			7.00	
Fort Supply.	100	35	66.7	2.29	Macksville.	95	35	63.3	5.50
Jimtown.			2.61		Manhattan (1).	94	30	63.1	6.15
Lehigh.			5.13		Manhattan (2).			6.55	
Tulsat.			3.28		Manhattan (3).	90	34	63.9	6.25

Meteorological record of voluntary observers, &c.—Continued.

Stations.	Temperature. (Fahrenheit.)			Precip'n.	Stations.	Temperature. (Fahrenheit.)			Precip'n.	Stations.	Temperature. (Fahrenheit.)			Precip'n.
	Max.	Min.	Mean			Max.	Min.	Mean			Max.	Min.		
Kansas—Cont'd.	o	o	o		In.	o	o	o		Ins.	o	o	o	
McAllaster.	96	38	62.5	4.46	McMonument.	92	32	.....	3.10	Fairfield.	91	40	59.9	2.31
Morse.	90	30	58.1	9.88	Ness City.	87	38	64.7	2.00	Fort Preble.	91	33	56.7	2.27
Oakley.	96	38	62.5	4.10	Oberlin.	100	40	64.8	1.05	Gardiner.	93	35	56.7	2.54
Offerle.	95	42	.....		Ogallala.	95	42	.....		Kennebec Arsenal.	90	35	56.4	4.35
Ottawa.	94	48	.....		Ottawa.	89	37	54.8	4.88	Kent's Hill.	89	34	56.7	2.85
Penobury.	95	43	.....		Peabody.	94	45	63.6	5.25	West Jonesport.	68	40	59.0	.....
Quinter.	95	43	.....		Quincy.	95	43	7.00		Maryland.				
Rome.	88	42	65.5	5.70	Russell.	86	34	62.6	7.71	Barren Creek Sp'gts.	89	42j	65.84	7.19
Salina.	92	35	65.4	8.92	Salina.	90	35	65.4		Cumberland (1).	90	34	62.9	7.02
Santa Fe T.	88*	40	65.7	11.01	Sedan.	88*	40	65.7		Cumberland (2).				
Seocene.	92	40	64.7	6.34	Shields.	92	37	62.0	1.40	Fullerton.	90	40</td		

Meteorological record of voluntary observers, &c.—Continued.

Stations.	Temperature. (Fahrenheit.)			Precip'n.	Stations.	Temperature. (Fahrenheit.)			Precip'n.				
	Max.	Min.	Mean			Max.	Min.	Mean					
<i>Michigan—Cont'd.</i>	o	o	o	Ins.	<i>Minnesota—Cont'd.</i>	o	o	o	Ins.				
Albion (2)	4.95	3.95	3.95	Medford	85	26	54.6	1.09	Culbertson*	o	o	o	2.28
Allegan	3.95	3.39	3.62	Minneapolis*	81	38	56.0	3.06	David City*	86	34	55.4	2.43
Alma	90	21	51.9	Morris	88	29	54.6	1.86	De Soto	93	34	61.4	2.94
Ann Arbor	87	33	56.1	Northfield	84	30	55.9	2.66	Fairbury	89	42	57.9	7.79
Arbela	3.43	1.41	2.41	Ortonville†	80	20	53.0	3.09	Falls City†	92	33	61.9	6.55
Atlantic	86	30	48.0	Pine River	79	30	53.6	1.78	Fort Niobrara	85	21	51.6	2.92
Ball Mountain	3.85	1.77	2.81	Pogekome Falls	75	17	46.3	1.18	Fort Omaha	94	35	66.6	2.58
Bear Lake	80	28	48.4	Red Wing	83	33	55.9	1.85	Fort Robinson	89	22	53.4	2.55
Bellaire	88	20	51.5	Redwood Falls†	83	17	52.0	2.30	Fort Sidney	88	24	54.6	1.20
Bell Branch	78	30	55.6	Rolling Green	81	31	56.8	1.10	Franklin	90	34	59.3	2.41
Benton Harbor h*	4.81	4.78	4.79	Tracy†	.....	.....	1.05	Genoa†	91	20	60.7	2.02	
Benzonia	90	38	59.8	<i>Mississippi.</i>	.....	.....	.....	Kimball If†	86	26	52.1	3.66	
Berlin	83	30	51.0	Aberdeen†	90	33	64.5	3.38	Marquette (1)*	95	32	54.0	2.12
Berrien Springs*	95	32	56.7	Agricultural College	91	40	69.2	1.55	Marquette (2)	90	32	58.8	2.13
Big Rapids	86	27	53.4	Batesville†	92	39	70.4	1.00	Minden	92	40	63.5	4.26
Birmingham	91	31	56.4	Booneville†	99	43	68.2	0.78	Nebraska City	86	32	56.7	0.98
Bronson	.....	52.2	4.54	Brookhaven†	94	38	70.6	0.23	North Loup†	91*	24	56.7	0.98
Buchanan	85	32	53.8	Canton	.....	.....	0.70	Oakdale†	94	25	57.7	1.57	
Calumet	80	29	46.5	Columbus†	99	41	72.6	0.90	Palmer	92	25	57.7	1.00
Cassopolis	89	34	57.2	Corinth f.	93	32	64.2	0.75	Plattsburgh†	.....	.....	2.90	
Charlevoix	86	30	51.7	Edwards†	93	45	71.4	1.74	Ravenna	88	26	54.3	1.43
Chase	84	24	49.5	Greenville†	87	45	69.5	4.03	Red Willow	.....	.....	2.00	
Chelsea	88	34	56.8	Hazlehurst†	93	43	73.5	0.12	Sargent	94	35	58.1	1.03
Clinton	.....	4.64	4.64	Hernando†	91	50	73.9	2.03	Stratton*	86	30	58.4	2.32
Concord	89	29	56.6	Holly Springs (1)†	88	46	69.2	1.50	Stuart†	88	26	57.7	2.32
Courtland	.....	5.52	5.52	Holly Springs (2)†	93	42	70.1	1.24	Tecumseh†	90	40	63.7	3.39
Deer Lake	84	30	54.9	Jackson†	88	40	70.7	2.30	Weeping Water*	94	29	62.1	5.22
East Tawas	84	30	52.5	Kosciusko†	89	50	69.4	0.45	West Hill†	93	40	66.6	1.65
Eden	91	39	57.2	Lake†	91	37	68.8	2.26	Weston	90	40	62.0	3.00
Evart	87	22	54.2	Lamar*	92	43	70.8	.....	West Point†	82	.....	1.90	
Fitchburgh	.....	3.98	3.98	Loch Leven†	92	47	71.7	0.79	<i>Nevada.</i>	.....	.....	.....
Flint	.....	3.09	3.09	Logtown†	89	46	72.2	1.12	Austin	88	23	53.4	0.25
Fort Brady	90	26	55.4	Louisville†	94	37	70.7	0.54	Battle Mountain*	90	34	59.5	0.62
Fort Mackinac	85 m	28	49.5	Macon (1)†	90	43	70.2	0.34	Belmont	86	21	52.4	0.70
Fort Wayne	89	31	56.7	Macon (2)†	96	40	70.6	1.02	Beowawe*	95	38	62.7	0.00
Fremont	80	34	55.5	Meridian†	90	41	71.3	0.54	Brown's*	100	46	71.3	0.00
Gladwin	93	21	54.6	Natchez†	94	43	72.8	0.78	Burner's Ranch	.....	.....	6.53	
Grand Rapids	89	33	56.4	Okolona†	98	40	71.2	0.90	Candelaria	89	29	59.2	0.16
Grape	.....	4.45	4.45	Pearlington†	88	55	73.7	1.36	Carson City	91	28	57.9	1.91
Grayling	90	25	55.5	Port Gibson† m	90	40	71.4	1.15	Dayton	95	31	61.8	1.02
Gulliver Lake	93	23	47.1	Pontotoc†	92	39	65.4	1.77	Downeyville	95	42	66.4	0.06
Hanover	.....	5.69	5.69	Rienzi†	92	44	70.1	1.25	El Dorado	106	54	83.1	0.02
Harrisville	88	30	56.2	Summit†	90	41	68.6	0.55	Elko (1)*	92	34	59.1	1.46
Hart	87	25	49.6	Water Valley*	99	43	72.0	2.29	Elko (2)*	98	26	55.8	2.08
Hastings	87	24	54.2	Waynesboro (1)†	89	39	69.3	0.15	Ely	90	21	55.5	1.39
Hayes	87	29	56.6	Waynesboro (2)†	94	41	68.8	0.45	Eureka	94	25	56.0	1.58
Hillman	92	23	51.2	Yazoo City†	.....	.....	1.35	Fort McDermitt	91	27	55.3	1.27	
Hillsdale	90	30	54.4	<i>Missouri.</i>	.....	.....	.....	Ferguson's Ranch	96	30	60.0	0.16	
Highland Station	92	33	55.6	Booneville†	.....	.....	.....	Genoa*	87	30	55.0	1.25	
Hudson	90	29	56.7	Conception	84	37	61.8	4.12	Golconda*	92	40	63.1	0.35
Ionia	90	29	53.0	Excelsior Springs	90	38	65.0	8.93	Halleck*	98	32	56.6	1.80
Ivan	88	30	53.2	Fayette†	88	33	63.8	9.20	Hawthorne	93	36	64.2	0.20
Jeddo	88	30	53.2	Fox Creek	86	40	62.0	3.70	Hot Springs (1)*	100	42	63.3	0.00
Kalamazoo	88	31	56.3	Frankford*	93	33	58.4	7.00	Hot Springs (2)*	100	42	63.3	0.00
Lansing	88	31	56.8	Glasgow	89	34	62.2	7.83	Humboldt	94	32	56.9	0.90
Lathrop	88	31	56.8	Grand Pass	87	36	63.1	8.93	Lewer's Ranch	89	25	54.1	3.15
Madison	84	24	50.0	Harrisonville†	88	40	63.6	8.23	Mill City*	92	39	58.3	1.68
Manchester	.....	56.3	4.30	Hermann†	.....	.....	.....	Montello*	110	36	66.7	0.98	
Marshall	91	30	58.8	Hermann	.....	.....	7.43	Palisado*	100	36	57.6	2.10	
May	88	30	54.4	Ironton	88	44	65.0	3.95	Pioche	90	23	56.4	3.38
Mio	90	25	53.2	Jefferson Barracks	88	287	58.2	3.00	Punch Bowl	.....	.....	0.38	
Montague	81	29	51.0	Jerome	.....	.....	2.12	Reno, State Univ'ty	90	29	60.9	0.00	
Mottville	90	25	57.2	Kansas City	88	37	64.8	9.03	Hot Springs (3)*	100	42	63.3	0.00
Noble	.....	4.75	4.75	Kidder†	88	30	61.8	10.30	Humboldt	94	32	56.9	0.90
North Adams	89	26	54.8	Kirkville†	88	36	61.8	5.70	Lewer's Ranch	89	25	54.1	3.15
North Aurelius	.....	4.58	4.58	Langdon†	.....	.....	4.15	Mill City*	92	39	58.3	1.68	
North Marshall	85	27	54.9	Louisiana Bridge†	.....	.....	6.30	Montello*	110	36	66.7	0.98	
Olivet	86	28	56.0	Mexico	85	42	7.94	Palisado*	100	36	57.6	2.10	
Ovid	90	28	55.2	New Frankfort*	88	38	67.4	Pioche	90	23	56.4	3.38	
Paw Paw	88	25	55.1	Oak Ridge	86	32	64.0	Punch Bowl	.....	.....	0.38		
Petersburgh	89	25	57.5	Oregon	90	34	63.1	Reno, State Univ'ty	90	29	60.9	0.00	
Pontiac	84	35	58.0	Ozark*	88	26	64.3	4.31	Hot Springs (1)*	100	42	63.3	0.00
Pulaski	.....	5.36	5.36	Princeton*	90	36	66.2	9.19	Hot Springs (2)*	100	42	63.3	0.00
Rawsonville	92	30	57.9	Princeton†	90	36	66.2	6.19	Hot Springs (3)*	92	34	63.3	0.00
Romeo	87	33	55.8	Romeo	87	40	64.3	4.31	Hudson Falls	94	32	56.9	0.90
Saint Ignace	90	25	52.4	Saint Charles (1)	88	62.0	3.70	Newton	95	33	58.6	3.82	
Saint John's	89	30	54.9	Saint Charles (2)	87	40	64.3	Newton	93	32	58.6	3.82	
Sand Beach	79	30	51.8	Saint Joseph†	87	40	62.0	Newton	95	33	58.6	3.82	
Standish	91	29	54.9	Savannah	90	37	63.7	5.02	North Conway	94	31	57.4	2.06
Stanton	87	27	54.3	Shelby	89	37	64.3	8.82	North Sutton†	90	32	55.6	3.06
Stockbridge	.....	3.97	3.97	Springfield	89	37	64.3	10.70	North Sutton*	90	32	55.6	3.06
Thornville	90	34	57.7	Steelville†	89	37	64.3	5.72	North Sutton*	90	32	55.6	3.06
Traverse City (1)	91	27	50.7	Wither's Mill	90	31	62.0	2.82	North Sutton*	90	32	55.6	3.06
Traverse City (2)	85	26	51.5	Willow Springs†	100	31	67.1	5.10	North Sutton*	90	32	55.6	3.06
Vandalia	.....	53.8	5.40	Montana	.....	.....	2.57	North Sutton*	90	32	55.6	3.06	
Vienna	.....	3.64	3.64	Camp Poplar River	80	27	52.0	2.82	North Sutton*	90	32	55.6	3.06
Washington	86	31	53.8	Custer†	81	26	52.2	3.23	North Sutton*	90	32	55.6	3.06
Williamston	86	34	58.0	Fort Custer	85	29	52.6	1.59	North Sutton*	90	32	55.6	3.06
Weldon Creek	86	24	53.2	Fort Keogh	85	33	53.6	2.62	North Sutton*	90	32	55.6	3.06
West Branch	88	28	50.5	Fort Logan†	78	14	48.4	2.03	North Sutton*	90	32	55.6	3.06
Ypsilanti (1)	90	28	56.2	Fort Maginnis	86	24	49.8	2.84	North Sutton*				

Meteorological record of voluntary observers, &c.—Continued.

Stations.	Temperature. (Fahrenheit.)			Precip'n.	Stations.	Temperature. (Fahrenheit.)			Precip'n.
	Max.	Min.	Mean			Max.	Min.	Mean	
New York—Cont'd.	°	°	°	In.	Oregon—Cont'd.	°	°	°	Ins.
White Plains	84	45	60.6	2.28	Eola	84	43	57.9	2.77
Willet's Point	88	41	60.6	2.60	Fort Klamath	90	24	50.8	1.24
North Carolina					Grant's Pass	96	35	59.7	3.02
Asheville (1)†					La Grande	83	34	55.6	5.34
Asheville (2)	90	30	62.6	5.47	Mount Angel	85	41	59.7	3.67
Chapel Hill	97	38	68.8	6.02	Parkers				3.16
Charleston					Siskiyou	93	34	55.8	3.63
Fayetteville†*	98	52	75.0	3.52	Tillainook†*	74	48	56.0	5.32
Goldsborough†	95	44	70.9	4.70	Pennsylvania				
Grover*g	94	44	68.7	0.30	Allegheny Arsenal	91	33	61.6	6.58
Hot Springs	88	33	63.7		Altoona	91	36	64.1	4.75
Lenoir	89	35	63.9	6.60	Anville				66.5
Lumberton†	97	40	69.8	3.13	Aqueduct	99	43*	67.0	9.55
Mount Airy†					Bethlehem	92	34	64.0	4.30
Mount Holly†					Blue Knob	94	34*	57.8	10.52
Mount Pleasant	94	34	67.0	2.91	Brookville				6.09
Monroe	93	41	69.0	3.11	Carlisle	96	36	63.4	4.52
Morganton†	94	37	66.7	6.17	Charlesville	90	29	58.9	1.07
Murphy					Clarion (1)†	86	28	58.0	3.84
New Berne†	91	45	67.0	6.12	Clarion (2)	94	34	60.0	5.29
Raleigh	95	46	69.0	4.55	Coatesville				4.46
Rock Spring*	90	37	67.2		Confluence	92	26	55.9	5.49
Salisbury	93	45	71.6	3.01	Corry	92	26	59.9	7.90
Soapstone Mount*	98*	34	69.6		Coudersport	90	26	59.7	2.88
Southern Pinec.	98	47	75.3	5.00	Drifton†	89	33	57.8	6.84
Statesville	92	36	68.6	3.11	Dylestown				4.82
Wadesborough†	95	38	68.9	4.18	Duberry†	88	26	56.3	4.72
Wake Forest	93	37	68.8	3.91	Eagle's Mere	86	31	57.3	9.21
Weldon (1)†	95	39	67.4	8.48	Edinborough*	86	30	58.8	6.08
Weldon (2)†	98	35	68.0	8.45	Emporium	92	25	64.5	8.02
Ohio.					Falls of Neshaminy	87	44	62.0	5.70
Akron	88	33	59.1	3.34	Franklin*	86	32	57.4	2.19
Ashland					Frankford Arsenal	90	36	63.2	4.43
Athens	89	30	59.9	2.44	Frederick				4.65
Bangorville	90	32	57.8	4.64	Freeport†				
Beaflsville*	92	40	61.8		Germantown	88	44	63.7	3.19
Bellevue*	90	30	57.8	5.55	Girardville	89	33	60.0	6.93
Caledonia†					Grampian Hills	90	30	59.6	11.63
Carrolton*	38	49	59.5	4.01	Greensborough†				4.63
Celina	91	33	61.1	4.47	Greenville	87	27	56.3	2.57
Circleville†					Honesdale	94	27	63.0	7.43
Clerksville	91	32	60.6	2.95	Huntingdon	93	28	56.4	5.47
Cleveland	89	33	59.4	4.16	Indiana	85	40	68.3	4.71
College Hill*	92	40	65.0	5.85	Johnstown†				6.15
Collinwood*	38	49	59.5	4.01	Kennett Square				
Columbus Barracks	96	33	62.1	5.56	Lancaster	91	36	62.5	4.46
Dayton	93	32	62.9	4.35	Lansdale				4.35
Demos	85	36	59.8	2.81	Le Roy*	89	32	59.4	5.84
Ellsworth					Lock No. 4†	89	32	59.4	4.41
Elyria	90	31	59.7	3.86	Mahoning†				2.95
Fostoria	92	33	61.6	6.43	Marshall's Creek	75	42	58.7	3.12
Galipoli†					McConnellsburgh	93	31	62.1	12.41
Garrettsville	87	24	55.8	2.65	Meadville†	86			2.30
Georgetown	93	36	62.6	2.33	Meshoppen†				3.19
Granville	89	34	59.3	2.90	Myersford	94	31	59.2	2.53
Greenville	88	32	59.7	5.57	New Bloomfield	93	29	62.1	5.47
Hanging Rock	90	31	59.9	4.16	New Castle	90	26	61.8	3.24
Hiram	85	30	57.4	2.48	Nisbet*	41	60.2		3.85
Hudson					Oil City†				3.85
Jacksonborough	94	36	63.4	4.20	Parker's Landing†				1.78
Jefferson	87	30	56.3	3.24	Petersburgh	94	30	59.8	6.85
Kent	94	27	59.2	4.18	Philipsburgh	93	27	58.5	5.28
Kenton*	94	34	57.8	5.06	Philadelphia				5.17
Logan	93	31	60.5	2.24	Pleasant Mount*	35		57.5	6.90
Lordstown	89	28	59.0	2.20	Point Pleasant				5.59
Mansfield†					Pottstown	91	36	63.0	7.47
Marietta (1)*					Quakertown	90	30	60.7	5.55
Marietta (2)	89	32	62.3	3.07	Reading†	94	32	62.1	4.10
McConneville	91	30	62.0	3.19	Ridingsburgh				4.10
Napoleon†					Salineville*	88	44	64.2	3.48
New Alexandria	93	31	60.9	5.05	Salem Corners	91	35	62.0	4.32
New Comerstown	89	33	60.6	3.46	Saltzburg†				3.82
North Lewisburgh	94	31	60.0	2.49	Scisholtzville				5.44
Oberlin	87	32	57.5	4.46	Selin's Grove	92	40	63.2	9.20
O. S. University	91	32	60.6	3.45	Sinethport	90	27	57.4	9.21
Orangeville	30		56.4	2.70	Smith's Corners				4.75
Ottawat					Somerset	92	28	54.2	2.32
Poland*	34		53.4	3.15	Swarthmore	90	38	62.3	5.82
Pomeroy	94	31	65.4	2.48	Tipton*	92	43	61.6	6.48
Portsmouth (1)†					Troy*	89	38	58.5	3.92
Portsmouth (2)†	90	36	61.8	3.27	Tuscarora*	94	44	65.6	3.92
Salineville*	38		58.2	5.20	Uniontown	88	30	60.9	6.93
Shanesville*	88	34	57.7	5.41	Warren†				3.00
Shiloh*	85	29	56.4	6.10	Wellsbrough	90	30	55.3	3.45
Sidney	94	33	61.5	5.20	West Chester	90	38	62.8	5.55
Springborough					Wyox	89	30	58.9	4.76
Tiffin	89	39	60.5	4.36	York	94	35	63.2	5.6
Upper Sandusky	90	33	60.2	5.54	Rhode Island				
Vienna*	91	35	59.4	2.38	Bristol	76	41	57.2	5.40
Wapakoneta	96	39	59.9	3.43	Fort Adams	76	36	54.2	4.96
Wauseon	91	26	58.4	8.22	Kingston (1)	88	35	56.2	3.58
Westerville	91	32	59.3	3.07	Kingston (2)				6.06
West Milton	98	35	64.4	7.63	Lonsdale				4.98
Weymouth					Newport	74	41	57.4	4.74
Wooster					Oleyville	74	41	57.4	6.10
Yellow Springs	89	39	57.8	2.98	Pawtucket	92	41	62.8	5.67
Youngstown	90	33	60.1	4.83	Providence (1)	85	40	61.0	4.71
Zanesville†	93	28	58.7	3.04	Providence (2)	84	37	60.0	4.82
Oregon					Woonsocket	86	40	61.3	3.73
Aiken					South Carolina				
Albany†	87	43	58.6	3.05	Bristol	92	46	71.6	1.13
Ashland*	91	47	63.8	1.90	Fort Adams	96	36	54.2	4.96
Bandon*	77	46	54.6	6.89	Kingston (1)	88	35	56.2	3.58
East Portland	87	48	58.7	4.11	Kingston (2)				6.06

Meteorological record of voluntary observers, &c.—Continued.

Stations.	Temperature. (Fahrenheit.)			Precip'n.	Stations.	Temperature. (Fahrenheit.)			Precip'n.	Stations.	Temperature. (Fahrenheit.)			Precip'n.
	Max.	Min.	Mean			Max.	Min.	Mean			Max.	Min.	Mean	
South Carolina—Con.	°	°	°	Ins.	South Carolina—Con.	°	°	°	0.45	Texas—Cont'd.	°	°	°	Ins.
Beaufort†	92	51	74.0	0.45	Belmont	94	41	71.5	1.17	Graham n.	°	°	°	1.21
Blackville	98	44	73.3	1.78	Branchville	97	41	71.6	2.08	Granbury†	89	53	72.2	2.64
Brewer Mine	100	39	69.5	2.73	Chester	95	35	67.4	0.50	Hearne f.	88	45	72.2	2.25
Cedar Springs†	95	35	67.4	2.33	Clinton	93	46	69.5	1.19	Longview†	91	43	71.8	2.46
Cheraw	95	40	70.9	3.79	Clinton	93	46	69.3	0.50	Luling†	92	48	73.4	3.32
Columbia (Ex.Sta.)	98	41	71.1	1.22	Clinton	93	46	69.3	0.50	Menardville†	91	60	73.3	1.52
Conway	95	30	70.2	1.59	Clinton	93	46	69.3	0.50	Merkel†	89	53	70.8	2.08
Evergreen	94	38	72.0	2.57	Clinton	93	46	69.3	0.50	Mesquite†	92	43	71.9	3.79
Greenville	98	43	74.9	5.64	Clinton	93	46	69.3	0.50	New Braunfels†	97*	52	72.2	0.71
Greenwood	95	42	71.2	0.96	Clinton	93	46	69.3	0.50	New Ulm	90	50	73.1	2.52
Harderville	96	42	73.2	0.63	Clinton	93	46	69.3	0.50	Parist.	88	39	68.2	2.89
Hartsville	97	40	72.9	0.00</										

Meteorological record of voluntary observers, &c.—Continued.

Stations.	Temperature. (Fahrenheit.)			Precip'n	Stations.	Temperature. (Fahrenheit.)			Precip'n
	Max.	Min.	Mean			Max.	Min.	Mean	
	Ins.	Ins.	Ins.			Ins.	Ins.	Ins.	
Wisconsin—Cont'd.	°	°	°		Wisconsin—Cont'd.	°	°	°	
Friendship*	34	55.3	6.38		Viroqua*	30	53.7	3.03	
Glasgow †	34	53.4	4.70		Waunakee	26	51.8	.....
Grantsburgh †	83	28	55.3	3.84	Weston*	34	54.1	4.02	
Greenwood †	80	25	53.4	3.76	Wyoming.	.....	.....	.....
Hayward* †	84	33	52.6	2.50	Carter.	.....	.....	.....
Lincoln* †	38	54.1	8.05		Camp Pilot Butte.	83	22	52.8	0.62
Madison	82	34	55.3	3.28	Camp Sheridan	77	21	46.8	1.40
Manitowoc	76	28	54.8	4.09	Fort Bridger.	20	.....	.....
Oshkosh†	85	39	55.7	4.05	Fort D. A. Russell	81	20	47.1	2.05
Phillips †	.....	.....	.....		Fort Laramie	88	.....	.....
Portage †	.....	.....	.....		Fort McKinney	81	29	51.6	0.45
Richland Centre†	42	56.6	3.06		Fort Washakie	78	23	50.5	0.67
Summit Lake*	82	32	50.4	4.55	Sweetwater Bridge	.....	1.29	.....

Reports received too late for publication in April.

Alaska.	.....	.....	.....	Nevada.	.....	.....	.....	.....	.....
Killisnoo.....	55	26	39.8	3.70	Carlin.....	84	30	52.0	0.23
California.	.....	.....	.....	Fenelon.....	80	30	56.0	.....	.....
Beaumont*.	87	40	64.0	0.61	New Mexico.	.....	.....	.....	.....
El Verano*.	52	48	61.8	0.96	Fort Selden.	96	41?	.....	0.04
Galt*.	84	46	64.5	0.55	New York.	.....	.....	.....	.....
Lewis Creek*.	92	48	66.9	0.41	Kingston.....	82	20	48.8	2.71
Livingston*.	90	47	63.9	0.10	North Carolina.	.....	.....	.....	.....
Napa*.	90	44	59.8	0.52	Raleigh.....	91	38	60.0	3.40
Pleasanton*.	88	48	60.4	0.62	Colony of Surinam,	.....	.....	.....	.....
Porterville*.	96	49	67.7	0.42	South America.	.....	.....	.....	.....
Sisson*.	76	32	51.9	0.63	Burnside-Coronie..	90	73	79.9	9.56
Walnut Creek.	83	43	60.4	0.75	Colorado.....	93 ^b	42d	67.8e	1.64
Georgia.	.....	.....	.....	West Virginia.	.....	.....	.....	.....	.....
Andersonville....	98	31	66.5	3.71	Parkersburgh.....	83	24	51.8	2.37
Iowa.	.....	.....	.....	Tyler.....	85	31	59.4	0.25	Wyoming.
Wesley.....	82	18	47.2	0.95	Rawlins.....	.....	3.24	.....	.....
Mexico.	.....	.....	.....	.....	.....	.....	.....	.....	.....
Pueblo.....	82	47	64.8	1.79	.....	.....	.....	.....	.....

Note.—Letters of alphabet denote number days missing in the report.

* Maximum and minimum temperature from observed readings. † Observations from Signal Service instruments. † From one observation at 10.00 a.m. § Observations made once a week. || General Russell Hastings, voluntary observer at Hamilton, Bermuda, forwarded with letter dated May 28, 1889, clippings from the "Bermuda Royal Gazette," stating that a contract had been concluded by the Lords Commissioners of Her Majesty's Treasury with the International Telegraph Company for the construction of a submarine telegraph line between Halifax, Nova Scotia, and Bermuda, and that there was no probe likely that cable would be laid during the coming summer.

Correction for April: Strike out data for Andersonville, Ga., and Parkersburgh, W. Va., and insert the same under "reports received too late for publication in March, 1889." For total precipitation at Fort Klamath, Oreg., read 1.12 instead of 4.95; and at Fort Adams, R. I., read 1.44 instead of 1.40.

Precipitation (in inches and hundredths) observed by assistant surgeons, U. S. Army, at Fort Washita, Ind. T.

Year.	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1843	2.87	4.35	5.05	4.59	4.43	2.76	1.67	2.25	3.80	7.56	1.85	.....	.....
1844	1.77	4.87	5.05	4.59	4.43	2.76	1.67	2.25	3.80	7.56	1.85	.....	.....
1845	0.60	5.48	5.04	4.50	2.62	0.33	4.12	2.65	3.65	2.40	1.90	34.70	.....
1846	4.40	2.73	2.54	2.40	2.70	10.23	1.14	2.30	9.00	2.35	3.55	0.01	49.75
1847	1.28	4.10	3.61	1.60	3.05	0.09	6.55	5.85	2.40	0.41	4.65	0.86	37.45
1848	1.38	1.54	1.70	1.97	4.30	3.73	0.35	2.45	2.55	4.90	2.50	35.28	.....
1849	2.65	2.69	6.69	14.61	4.00	13.40	4.00	3.74	4.42	2.50	2.67	64.29	.....
1850	3.10	0.68	2.49	3.33	4.22	5.67	3.30	4.80	2.30	2.56	5.14	3.75	41.34
1851	0.20	5.70	5.40	1.35	2.95	4.47	4.20	0.10	4.00	0.60	2.60	5.15	31.52
1852	1.37	4.80	5.40	1.62	4.61	5.48	2.90	4.45	6.43	3.77	3.77	4.77	47.07
1853	0.62	2.67	0.75	1.39	7.30	2.29	4.48	0.95	4.26	3.50	0.84	1.43	40.46
1854	0.01	3.30	5.53	4.21	11.73	9.17	0.59	1.39	1.17	1.19	3.57	1.42	43.28
1855	1.16	0.54	0.13	3.47	2.11	2.07	3.29	3.56	1.01	0.70	3.58	1.09	21.81
1856	2.28	3.44	2.18	2.38	2.57	0.31	0.77	2.85	4.18	4.20	1.78	2.10	29.04
1857	1.20	4.79	0.38	0.44	4.41	2.71	2.95	4.61	1.64	2.37	4.58	3.66	33.17
1858	2.45	1.89	0.55	1.46	4.82	.....	.....	.....	.....	1.20	.....	.....	.....
1859	.....	.....	.....	.....	.....	.....	.....	.....	.....	1.38	0.55	.....	.....
Means.	1.68	2.78	2.61	3.40	5.31	4.33	3.24	2.86	3.55	2.94	3.60	1.84	38.23

Precipitation (in inches and hundredths) observed at Yreka, Cal., by Mr. C. H. Pyle, voluntary observer.

Year.	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1872	3.83 ^a	1.91 ^a	1.67 ^a	2.04 ^a	0.44	0.00	0.14	0.00	0.25	1.55	1.43	3.72	16.98
1873	1.28	1.77	0.40	0.90	0.60	0.00	0.00	0.44	0.55	1.17	2.20	9.31	.....
1874	3.78	1.62	1.49	0.74	0.34	0.44	0.00	0.00	1.29	2.16	0.00	11.86	.....
1875	4.35	0.19	1.23	0.17	0.51	0.30	0.07	0.00	3.34	5.29	6.07	21.52	.....
1876	2.00	1.93	2.07	0.42	0.65	0.20	0.32	0.19	0.90	3.05	0.43	0.26	12.42
1877	1.20	3.24	1.48	0.74	1.56	0.65	0.18	0.14	0.00	2.00	3.04	0.95	13.98
1878	6.12	3.91	2.80	0.37	0.56	0.07	0.35	0.40	0.45	0.25	1.15	0.45	16.88
1879	1.53	1.41	3.96	1.56	1.42	0.39	0.22	0.15	0.04	0.77	2.32	7.23	21.00
1880	2.43	0.61	1.20	2.23	0.41	0.10	0.15	0.00	0.00	0.13	0.10	2.42	9.78
1881	11.78	2.58	0.19	0.48	0.00	1.65	0.59	0.26	0.30	3.24	0.68	1.60	23.35
1882	1.81	1.96	0.42	1.20	1.02	1.78	1.52	0.00	0.90	1.88	1.89	2.09	16.47
1883	1.38	0.47	0.53	1.26	1.76	0.00	0.33	0.25	1.35	0.66	2.95	11.27	.....
1884	2.10	1.20	2.44	1.41	1.40	1.78	1.33	0.51	0.33	1.36	0.79	6.19	20.84
1885	1.13	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Means.	3.19	1.75	1.53	1.04	0.82	0.57	0.40	0.15	0.30	1.46	1.67	2.78	15.82

* From "Physical Data and Statistics of California." Hall. † Interpolated.

Precipitation (in inches and hundredths) at Amherst College, Mass., as furnished by the late Prof. E. S. Snell, from 1836 to 1882, inclusive, and by the Agricultural Experiment Station from 1883 to 1888, inclusive.

Year.	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1836	4.21	3.83	3.13	1.98	2.59	3.45	6.02	0.96	2.28	3.02	3.49	5.80	40.76
1837	1.75	2.42	2.05	4.33	5.76	4.49	7.35	2.57	1.07	2.06	1.90	2.35	38.70
1838	2.45	1.67	1.69	2.02	3.63	4.90	2.27	3.95	6.38	4.12	5.77	39.81	40.81
1839	1.66	1.75	1.89	4.14	3.49	3.30	9.56	2.51	2.82	3.04	3.04	2.28	42.83
1840	3.15	2.03	1.98	3.18	4.91	2.07	3.34	2.57	3.01	4.61	3.15	47.01	47.01
1841	5.80	1.50	2.85	4.52	3.47	1.65	2.55	3.18	3.00	3.00	3.00	4.63	41.63
1842	1.03	3.73	2.39	2.92	2.40	3.18	1.95	7.42	3.23	2.84	3.73	38.05	38.05
1843	0.99	3.49	5.73	4.82	2.09	5.18	2.53	4.45	9.45	3.07	3.07	45.58	45.58
1844	1.66	2.11	2.05	3.52	3.23	3.60	2.47	1.76	2.84	2.16	2.16	3.17	43.50
1845	1.66	2.11	2										